Tentative agenda:

Aug. 19, 10:30 am Meeting with St. Louis Park

1st floor conference room, 7305 Oxford St., St. Louis Park, MN

St. Louis Park: Jay Hall, Mark Hanson ?Summit Envirosolutions: Bill Gregg? MPCA: Nile Fellows, Dave Scheer

US EPA: Michelle Kerr Vertellus: John Jones

Discuss current data for the Reilly Tar Superfund site and the gradient control system.

Aug. 19, 1 pm Observe Weekly Highway 7 Construction Meeting

MnDOT trailer field office located on the southwest quadrant (of Hwy 7 & Louisiana Ave.) parking lot.

Numerous project contractors.

Aug. 19, 1:30 pm Highway 7 Project Meeting

St. Louis Park: Joe Shamla, ?Jay Hall? SEH Inc.: Al Sunderman, John Kinney Summit Envirosolutions: Bill Gregg MPCA: Nile Fellows, Dave Scheer

US EPA: Michelle Kerr Vertellus: John Jones

Discuss scope and duration of impacts from the Highway 7 project to the Reilly site groundwater gradient control network. Discuss status of MCES and NPDES permits associated with the project and well re-routes.

Aug. 19, 2 pm Highway 7 Project Site Walk

SEH Inc.: Al Sunderman and/or John Kinney

MPCA: Nile Fellows, Dave Scheer

US EPA: Michelle Kerr Vertellus: John Jones

Aug. 20, 10 am Meeting with Edina

ED PW Conference Room 1, 7450 Metro Blvd, Edina, MN

Edina: David Goergen

MPCA: Nile Fellows, Dave Scheer

US EPA: Michelle Kerr

Discuss current data for the Reilly Tar Superfund site and Edina well trends.

^{*}Please bring a hard hat, safety shoes, and a safety vest.

Monte Hauson Bill Grees Totalores W. Ken-D. Schen

Reilly Tar & Chemical Superfund Site August ?
(St. Louis Park Plant)

Described all, some questions, what to expect uxt.

August 2013 Briefing for City of St. Louis Park
US EPA R5 Superfund; M. Kerr

312.886.8961 / kerr.michelle@epa.gov

MPCA Superfund Remediation; N. Fellows 651.757.2352/nile.fellows@state.mn.us

MPCA Superfund Remediation; D. Scheer 651.757.2693/dave.scheer@state.mn.us

Facts

Polycyclic aromatic hydrocarbon (PAH) concentrations have exceeded Consent Decree (CD-RAP) advisory levels (Table 1) and show increasing trends in the Prairie du Chien aquifer. (Refer to data for wells <u>E7</u>, <u>E13</u>, SLP6, SLP10, W23, W48, W403, three of which are municipal supply wells without treatment units.)

• In municipal well influent monitored in association with the Reilly Superfund site there is no apparent immediate human health risk in comparison with current PAH toxicological data (US EPA Tapwater Screening Levels, TWSLs; MDH Health Risk Limits, HRLs, Table 2).

The CD-RAP requires that W48 pump as part of the gradient control system for the Prairie du Chien aquifer (Section 7.4.2), and it has not be active since at least September 1993. The agencies previously directed City and Reilly to modify the system in June of 1995.

Contamination greater than current risk criteria (TWSLs/HRLs) is in the three uppermost aquifers: Drift, Platteville, and St. Peter, as well a source area well in the Prairie du Chien on the Reilly site that is continuously pumped. A separate gradient control system associated with the Reilly site exists for the three uppermost aquifers.

EPA and MPCA are taking action to respond to this contamination. The agencies will direct the performing and responsible parties to modify the groundwater gradient control system for the Prairie du Chien aquifer, pursuant to CD-RAP Section 7.4.1 in order to prevent the further spread of ground water exceeding any of the Drinking Water Criteria defined in Section 2.2 of the CD-RAP, and to halt increasing PAH concentrations in neighboring community municipal wells.

Municipal Well Review

For naphthalene and benzo(a)pyrene equivalents (cPAH), data for Edina municipal wells monitored in 2012 (E2, E3, E7, E13, E15) are in most cases one and sometimes two orders of magnitude below EPA tapwater screening levels. Relative to the TWSLs for non-carcinogenic PAH (oPAH), concentrations in Edina municipal wells are even farther below these criteria. However, two Edina municipal wells (E7, E13) have increasing trends of oPAH, and concentrations of oPAH that exceed CD advisory levels.

The St. Louis Park municipal wells tested in 2012 (SLP4, 6, 10, 11, 12, 13, 14, 16) do not exceed TWSLs. SLP10 has a increasing cPAH trend but naphthalene is two orders of magnitude below the TWSL and the well has carbon treatment. SLP6 has an increasing oPAH trend but the oPAHs are four orders of magnitude below TWSLs, and naphthalene (oPAH in CD) is 1-2 orders of magnitude below the TWSL. However, PAH exceed CD advisory levels in SLP6.

The Hopkins municipal well H6 and Minnetonka municipal well MTKA6 tested in 2012 do not have concentrations of PAH at any level of concern and have no trends.

Proposed Short-Term Goals

- Contain the PAH plume
- Update and modify CD clean up criteria to align with modern PAH toxicological science

Table 1. CD-RAP Criteria

<u>Parameter</u>	Advisory Level		Drinking Water Criterion	
The sum of benzo (a) pyrene and dibenz(a,h)anthracene	3.0	ng/l*	5.6	ng/l
Carcinogenic PAH	15	ng/1**	28	ng/l**
Other PAH	175	ng/l	290	ng/l

Table 2. US EPA, MDH, and MPCA groundwater screening and action levels.

TWSLs are approximately the same as, but slightly more conservative than the Minnesota Health Risk Limits (HRLs).

esota Health Risk Limit		-		
	US EPA			Current
	Tapwater	·		MPCA
	1x10 ⁻⁵			Drinking
	Screening	US EPA	MDH	Water
	Level	MCL^1	HRL^2	Criteria
Units	μg/L	μg/L	μg/L	μg/L
Risk Threshold				
(ELCR / HI)	$1 \times 10^{-5} / 1$	_	1	Varies
	Ingestion,			
D. 1	inhalation,		т .'	*7 *
Exposure Pathways	contact	Ingestion	Ingestion	Varies
Promulgated?	No	Yes	Yes	No
	CARCINOC	BEN PAHs		L
Benzo(a)pyrene TEF	0.029	0.2	-	0.05
Benzo(j)fluoranthene	0.056	_	_	_
Naphthalene*	0.14	_		300
Quinoline	0.021	_	-	-
NO	N-CARCING	GENIC PA	Hs	I
Acenaphthene	400	_	400	400
Anthracene	1,300		2,000	2000
Fluoranthene**	630	_	300	300
Fluorene	220		300	300
Naphthalene	6	-	300	300
Pyrene	87	-	200	200
		•		•

¹ Maximum Contaminant Limit

² Health Risk Limit

^{* =} Naphthalene has both cancer and non-cancer screening levels. It is recommended that the more conservative cancer screening levels be used for this assessment.

^{** =} Fluoranthene screening level is greater than Drinking Water Criteria. Further discussion should take place regarding this compound.

Table 3. US EPA Carcinogenic PAH Toxicity Equivalent Factors (TEF)

Compound	TEF
Benzo(a)pyrene	1
Benz(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenz(a,h)anthracene	1
Indeno(1,2,3-c,d)pyrene	0.1



1250 2500 SCALE IN FEET

6/13/2013 USEPA DRAFT Review Notes for 2012 Annual Monitoring Report

eedance of drinking water level,

eedance of advisory level,

reasing [cPAH] trend, reasing [oPAH] trend,

L / INDUSTRIAL / ING WELL NAME MATE LOCATION OF THE D OPCJ MONITORING

ATE EXTENT OF PAH PLUME

MAP PROVIDED BY STS GIS.



STS CONSULTANTS

10900 73rd Axe. N., Soile 150 Maple Grove, ADI 55,369 763-315-6300 www.staconsultants.com Septem (\$2004 St. 575 Consecution Sta

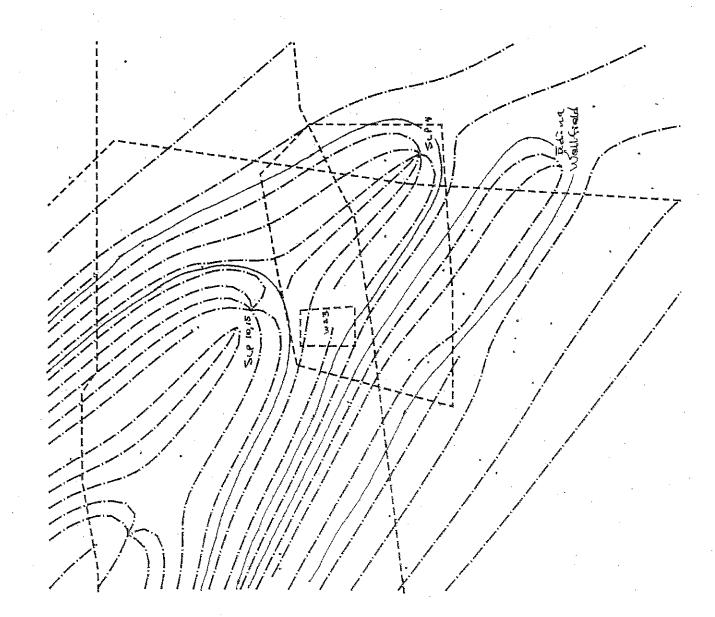
PROPOSED LOCATIONS OF THE NEW OPCJ MONITORING WELLS HYDROGEOLOGICAL ANALYSIS CONDUCTED TO SUPPORT THE 3RD FIVE-YEAR REVIEW REPORT

REILLLY TAR & CHEMICAL CORPORATION SUPERFUND SITE CITY OF ST. LOUIS PARK, HENNEPIN COUNTY, MINNESOTA FOR: MINNESOTA POLLUTION CONTROL AGENCY

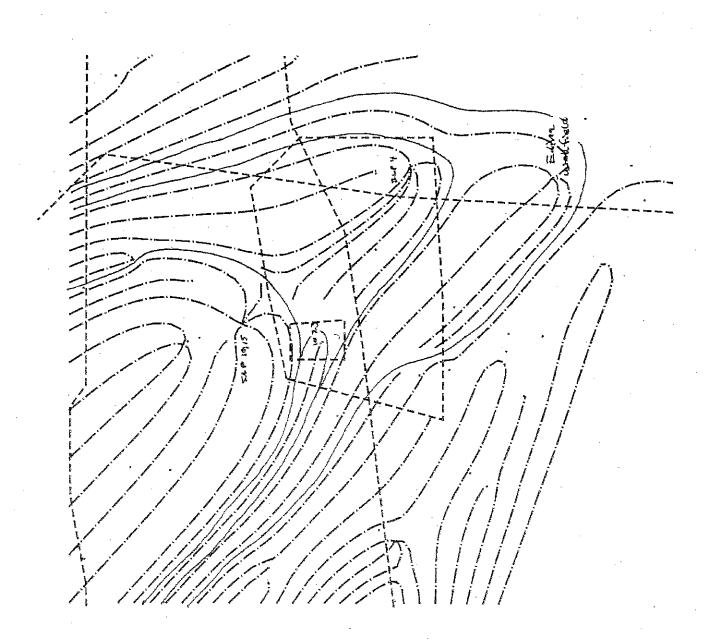
Drawn: TAK 8/02/2006 RLD 8/02/2006 Checked RLD 8/02/2006 Approved: PROJECT NUMBER 200604690 13

Flgure Z

Suring 1992 Pump Rates



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City Manager President Page 2

Gradient control simulations utilize the same aquifer properties as the calibrated model and 1992 pumping rates of 90 high capacity wells that utilize the OPCJ. Pumping rates for these wells were obtained from the database maintained by the Department of Natural Resources Division of Waters. Simulations were conducted at CD-RAP designated pumping rates, present pumping rates, and other possible pumping rates. The gradient controls were plotted using the particle tracking function of the SLAEMS program, allowing for delineation of capture zones of gradient control wells. The capture zone plots are attached and are discussed below:

Figures 1, 2, and 3 are spring pumping season gradient control simulations. Figures 4 through 8 are summer season simulations.

Figure 1 shows capture zones for winter season pumping rates specified in the CD-RAP for wells SLP 4 and W48 and actual 1992 pumping rates for other wells. The combined capture zone for SLP 4, SLP 6 and SLP 10 & 15 appears to be effective in controlling the flow of contaminated ground water from the site with the possible exception of a narrow volume directly down gradient from W 23. It is impossible to say, within the limitations of the model, whether this small volume of contaminated ground water is actually being captured or not; unfortunately this volume of contaminated ground water contains some of the most highly contaminated ground water in the OPCJ in the vicinity of the site.

Figure 2 shows capture zones for SLP 4 pumping at 900 gpm, SLP 6 off-line, and W48 off-line. A large volume of contaminated ground water in the OPCJ can be seen escaping the site under this pumping scenario.

Figure 3 shows the projected capture zone with SLP 4 only pumping at 1200 gpm. It appears that a significant volume of contaminated ground water is leaving the site under this scenario.

Figure 4 shows capture zones for SLP 4 pumping at the CD-RAP specified rate and SLP 6 and W 48 pumping at 1980 rates. These were the rates used in the original design of the gradient control well system. This combination of pumping wells appears to be capable of controlling the area of contamination in the OPCJ within the limitations of accuracy of the model.

Figure 5 shows capture zones under the same rates as Figure 4 except that W 48 is not pumping. The capture zone for the southern portion of the area of contamination is considerable diminished here without W 48 in operation. It appears that a considerable volume of contaminated ground water is leaving the area of the site.

Figure 6 shows capture zones with SLP 4 only in operation. This pumping scenario is clearly not acceptable as nearly the entire southwestern of the area of contamination is not under hydraulic control.



Minnesota Pollution Control Agency

CERTIFIED LETTER RETURN RECEIPT REQUESTED

JUN 7 1995

City Manager City of St. Louis Park 5065 Minnetonka Boulevard St. Louis Park, Minnesota 55416 President
Reilly Industries
1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

RE:

United States of America, et al. vs. Reilly Tar & Chemical Corporation, et al. File No. CIV 4-80-469, Consent Decree - Remedial Action Plan Section 7.4.1., Praire Du Chein-Jordon Aquifer Contingent Actions

Dear Gentlemen:

The U.S. Environmental Protection Agency (EPA) and the Minnesota Pollution Control Agency (MPCA) have reviewed monitoring and modeling data pertinent to the operation of the Prairie Du Chein-Jordon Aquifer's (OPJC's) gradient control system. According to the Consent Decree-Response Action Plan (CD-RAP) the gradient control system consists of the following three wells SLP4, SLP6, and W48. The gradient control system is designed to prevent the spread of contaminated ground water to neighboring community's water supplies.

The EPA and the MPCA have completed a series of modeling runs using the Single Layer Analytical Element Models (SLAEMS) with the objective of evaluating the gradient control system as it is presently implemented in the OPJC. The development of this model has followed the modeling work done by the United States Geological Survey (USGS) under contract to the MPCA in order to design the gradient control system in the early 1980's. The model was calibrated to 1880 era pre-pumping water levels as well as 1980 water levels, which represent a period of considerable pumping stress. These calibrations use the same aquifer properties, pumping rates, and water levels as the USGS model calibration. The agreement between the SLAEM and the USGS model is very good, with water levels generally within 10 feet of measured levels, and accuracy at least as good as the USGS model. The SLAEMS differs from the MODFLO™ used by the USGS in that MODFLO™ is a finite difference model that uses boundaries to simulate far-field conditions and a grid system to discretize aquifer domains. Following calibration of the model, files were set up to simulate several gradient control pumping scenarios during the spring and summer pumping seasons. The spring season simulation uses average pumping rates for the months of October through March. This represents the time of the year when pumping rates are lowest. The summer season simulation uses April through September pumping rates and represents the heavy pumping season.

City Manager President Page 3

Figure 7 shows capture zones with SLP 4 only pumping at a rate of 1200 gpm. While the capture zone is larger than shown in Figure 6, a significant of contaminated ground water appears to be leaving the site.

Figure 8 shows capture zones with SLP 4 pumping at 1200 gpm and SLP 6 at 690 gpm. This scenario appears to be nearly effective in providing hydraulic control over the area of contamination, with the possible exception of the extreme southwestern portion of the contaminated area and the same small volume directly downgradient of W 23 which appears in most of the simulations.

Conclusions:

- 1. SLP 6 alone, pumping at either 900 or 1200 gpm is unacceptable in providing gradient control over contaminated ground water in the vicinity of the site during either the spring or summer pumping seasons.
- 2. SLP 4 pumping at 900 gpm and SLP 6 pumping at 690 gpm appears to be marginally effective in providing necessary gradient control during the spring pumping season.
- 3. SLP 4 pumping at 1200 gpm in combination with SLP 6 pumping at 690 gpm appears to be marginally ineffective in providing hydraulic control at the site.
- 4. If SLP 6 is used for gradient control, it will pull the plume toward it and will likely exceed the drinking water criteria within a year or two. W 48 is better situated for gradient control as it is closer to the site. Pumping W 48 will not expand the size of the plume or pull it closer to the Edina well field.

The EPA and the MPCA hereby, notify pursuant to Section 7.4.1. of the CD that Reilly Tar & Chemical Corporation must submit a plan for gradient control system modification in order to prevent the spread of ground water exceeding any of the Drinking Water Criteria defined in Section 2.2. Water level data submitted in the Annual Monitoring Reports and well pumping data received from the Minnesota Department of Natural Resources indicate that the current gradient control system is not sufficient to prevent the spread of contaminated ground water. The required plan may include alteration of specified pumping at gradient control wells, additional gradient control wells or returning to service

City Manager President Page 4

former gradient control wells. Within 90 days of receipt of this letter Reilly shall submit to the Agencies the gradient control system modification plan. The EPA and the MPCA shall review the plan in accordance with Part G of the Consent Decree.

Please call either Project Manager if you have concerns or questions on this letter.

Sincerely,

Douglas Beckwith Project Manager

(612) 296-7715

Superfund Unit

Site Response Section

Ground Water and Solid Waste Division

Minnesota Pollution Control Agency

DB:DO:jlm

Enclosure

Tarryl Owens

Remedial Project Manager

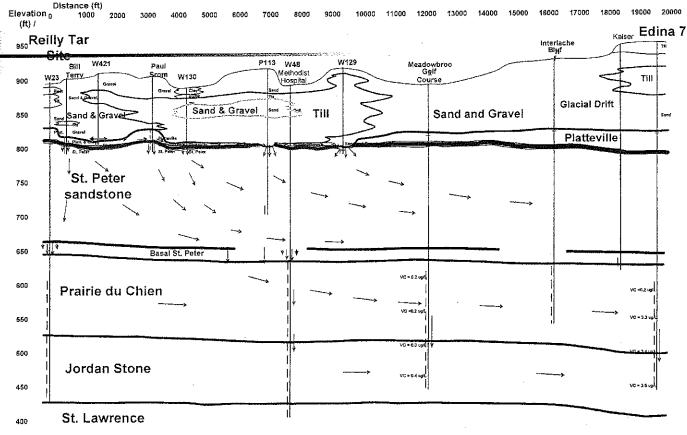
(312) 886-7089

Remedial Enforcement

Response Branch

U.S. Environmental Protection Agency

Hydrogeologic Section Showing Pathway of Ground-Water Flow and Contaminant Transport to Bedrock Aquifers



Notes: Double vertical line - screened section or open hole section of the well

Grachent Control Upper Aguilers

9 active Stopper

13 active E 20 gpm

10 active 20 gpm

120-421 36

Thould Platter the W421 be pumping? or revorted?

Should Platter the W421 be pumping? or revorted?

Should Platter the W421 be pumping? or revorted?

Should Platter the W421 be pumping?

Swatch sextracts 500 800 gm

Sewatch of From they? construction extracts 500 800 gm

Swatch of Platter the W421 be pumping?

The pumping? or revorted?

Should Platter the W421 be pumping?

The pumping? or revorted?

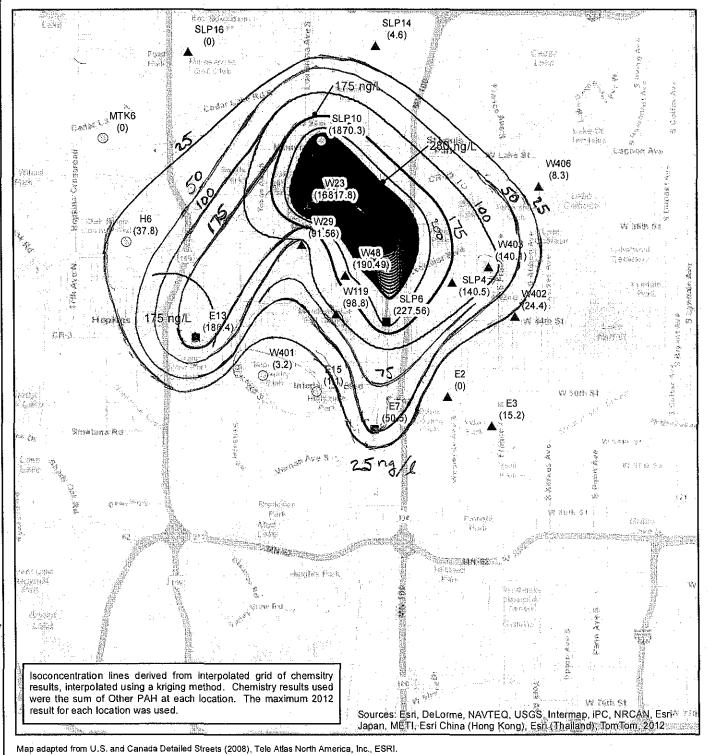
Swatch of the pumping?

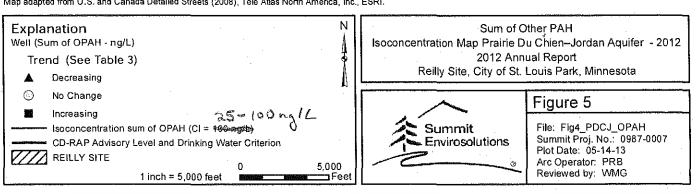
The pumping? or revorted?

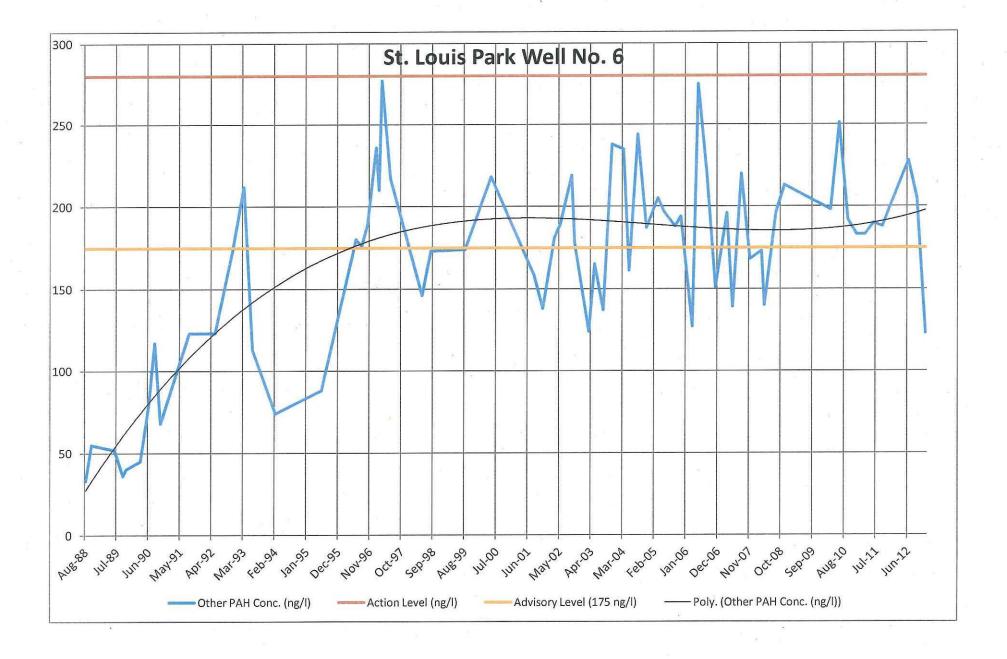
The pumping? or revorted?

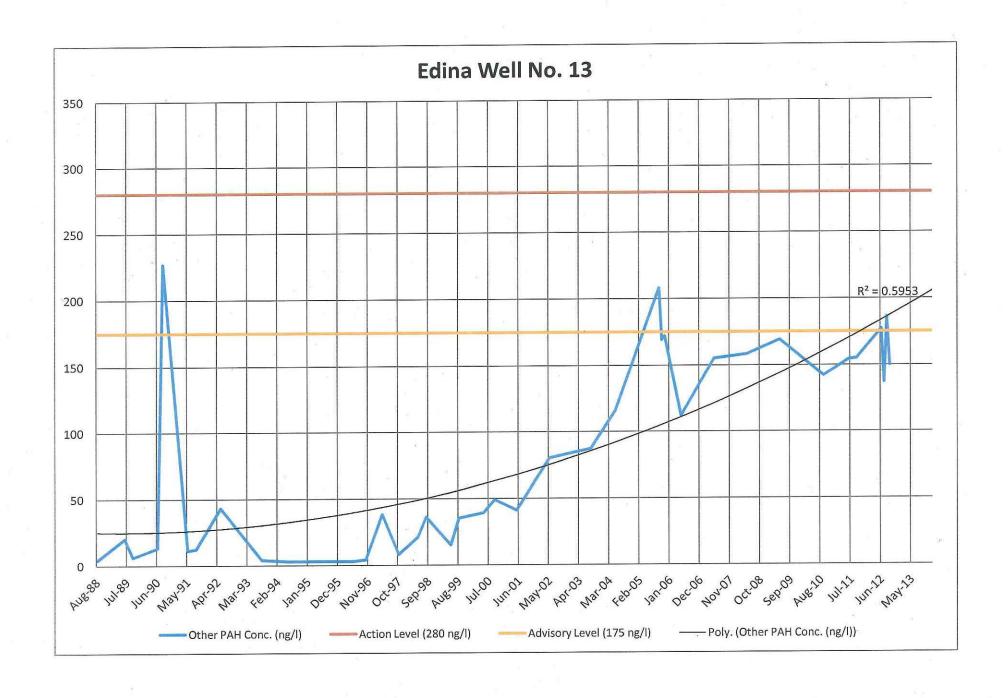
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The pumping of the pumping









OPAH (sum) - E7

Standard Deviation of S

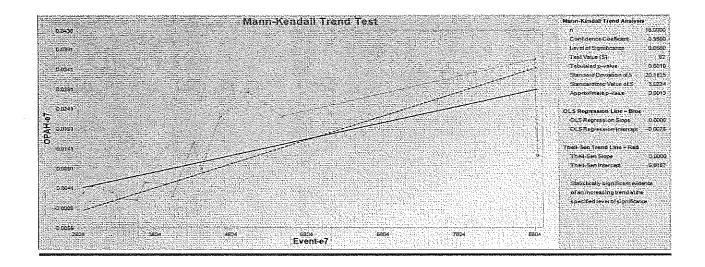
Standardized Value of S

Approximate p-value

General Statistics	
Number of Events	15
Number of Values	15
Minimum	0.0012
Maximum	0.0367
Mean	0.0115667
Geometric Mean	0.0070605
Median	0.0056
Standard Deviation	0.0111072
SEM	0.0028679
Mann-Kendall Test	
Test Value (S)	62
Tabulated p-value	0.001

Statistically significant evidence of an increasing

trend at the specified level of significance.



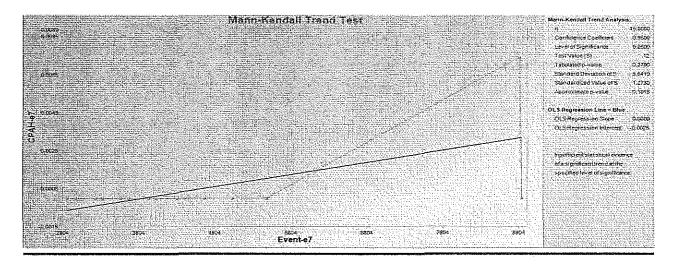
20.182501

3.0224203 0.0012538

CPAH (sum) - E7

General Statistics	•
Number of Events	15
Number of Values	15
Minimum	0
Maximum	0.0074
Mean	4.93E-04
Geometric Mean	0
Median .	0
Standard Deviation	0.0019107
SEM	4.93E-04
Mann-Kendall Test	
Test Value (S)	12
Tabulated p-value	0.279
Standard Deviation of S	8.6409876
Standardized Value of S	1.2730026
Approximate p-value	0.1015086

Insufficient evidence to identify a significant trend at the specified level of significance.



Questions for Edina Meeting

8/20/2013

Does Edina currently receive data related to monitoring for the Reilly Tar & Chemical Superfund site in St. Louis Park? Would you like to?

Is anyone in contact with you about the site? How years ago St. Long Poule met

Going forward, how would you like to engage as a stakeholder for the site? That is, what is your level of interest? High, want to hear St. Louis Park's plan, AMPS, notification of milestrues + bry steps, CD modes he at the table

Do you monitor for any PAHs besides benzo(a)pyrene? Will does VDCs annual, PAH May be weny o 4 yrs?

Wayne Honle 7 Edward Pran Olson

Reilly Tar & Chemical Superfund Site (St. Louis Park Plant)

August 2013 Briefing for City of Edina US EPA R5 Superfund; M. Kerr 312.886.8961 / kerr.michelle@epa.gov MPCA Superfund Remediation; N. Fellows 651.757.2352/nile.fellows@state.mn.us MPCA Superfund Remediation; D. Scheer 651.757.2693/dave.scheer@state.mn.us

Facts

- Polycyclic aromatic hydrocarbon (PAH) concentrations have exceeded Consent Decree (CD-RAP) advisory levels (Table 1) and show increasing trends in the Prairie du Chien aquifer, specifically Edina wells E7 and E13.
- In municipal well influent monitored in association with the Reilly Superfund site there is no apparent immediate human health risk in comparison with current PAH toxicological data (US EPA Tapwater Screening Levels, TWSLs; MDH Health Risk Limits, HRLs, Table 2).
- EPA and MPCA are taking action with the performing and responsible parties for the site to respond to this contamination. The agencies are directing the performing and responsible parties to modify the groundwater gradient control system for the Prairie du Chien aquifer.
- Contamination greater than current risk criteria (TWSLs/HRLs) is in the three uppermost aquifers: Drift, Platteville, and St. Peter, as well a source area well in the Prairie du Chien on the Reilly site that is continuously pumped. A separate gradient control system associated with the Reilly site exists for the three uppermost aquifers.

Municipal Well Review

For naphthalene and benzo(a)pyrene equivalents (cPAH), data for Edina municipal wells monitored in 2012 (E2, E3, E7, E13, E15) are in most cases one and sometimes two orders of magnitude below EPA tapwater screening levels. Relative to the TWSLs for non-carcinogenic PAH (oPAH), concentrations in Edina municipal wells are even farther below these criteria. However, two Edina municipal wells (E7, E13) have increasing trends of oPAH, and concentrations of oPAH that exceed CD advisory levels.

Table 1. CD-RAP Criteria

Parameter	Advisory Level		Orinking Water Criterion	
The sum of benzo (a) pyrene and dibenz(a,h)anthracene	3.0	ng/l*	5.6	ng/1
Carcinogenic PAB	15	ng/1**	28	ng/l**
Other PAB	175	ng/l	280	ng/l

Table 2. US EPA, MDH, and MPCA groundwater screening and action levels.

TWSLs are approximately the same as, but slightly more conservative than the

Minnesota Health Risk Limits (HRLs).

esota Health Risk Limit			1	
	US EPA			Current
	Tapwater			MPCA
	1×10^{-5}			Drinking
	Screening	US EPA	MDH	Water
	Level	MCL^1	HRL^2	Criteria
	130.01	1.102	11100	Omona
Units	μg/L	μg/L	μg/L	μg/L
Risk Threshold				
(ELCR / HI)	$1 \times 10^{-5} / 1$	_	1	Varies
(22011, 121)			^	, 62.105
	Ingestion,			
	inhalation,			
Exposure Pathways	contact	Ingestion	Ingestion	Varies
, , , , , , , , , , , , , , , , , , ,		8		
Promulgated?	No	Yes	Yes	No
	CARCINOC	EN PAHs		
Benzo(a)pyrene TEF	0.029	0.2	_	0.05
		¥		
Benzo(j)fluoranthene	0.056	_	<u>-</u>	-
Naphthalene*	0.14	-	-	300
Quinoline	0.021	- :	-	
) TO:	N. CARORIO	ACENTIC DA	TT	
NO.	N-CARCINC	GENIC PA	.Hs	
Acenaphthene	400	-	400	400
Anthracene	1,300		2,000	2000
T3 /1	600		200	200
Fluoranthene**	630	-	300	300
Fluorene	220		200	200
Fluorene	220	-	300	300
Naphthalene	6	_	300	300
Tapiniaiciic		_	300	500
Pyrene	87	<u></u>	200	200
-				

¹ Maximum Contaminant Limit

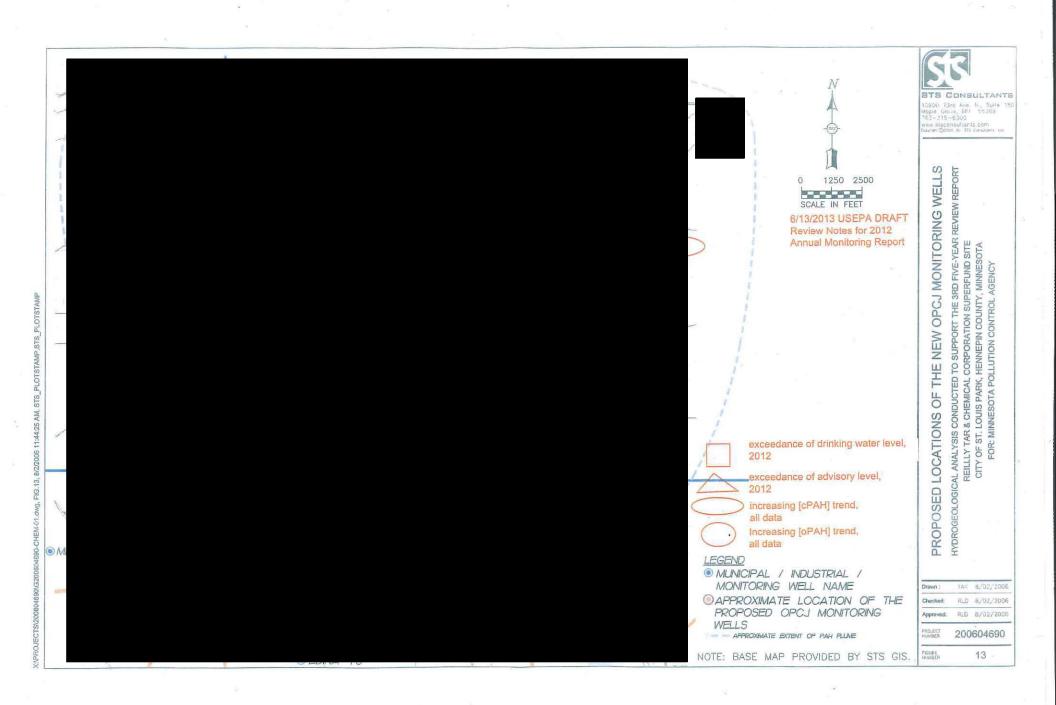
² Health Risk Limit

^{* =} Naphthalene has both cancer and non-cancer screening levels. It is recommended that the more conservative cancer screening levels be used for this assessment.

^{** =} Fluoranthene screening level is greater than Drinking Water Criteria. Further discussion should take place regarding this compound.

Table 3. US EPA Carcinogenic PAH Toxicity Equivalent Factors (TEF)

Compound	TEF
Benzo(a)pyrene	1
Benz(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenz(a,h)anthracene	1
Indeno(1,2,3-c,d)pyrene	0.1



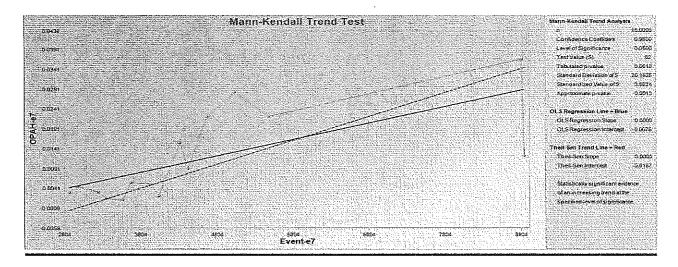
OPAH (sum) - E7

Standardized Value of S

Approximate p-value

General Statistics	
Number of Events	15
Number of Values	15
Minimum	0.0012
Maximum	0.0367
Mean	0.0115667
Geometric Mean	0.0070605
Median	0.0056
Standard Deviation	0.0111072
SEM	0.0028679
Mann-Kendall Test	
Test Value (S)	62
Tabulated p-value	0.001
Standard Deviation of S	20.182501

Statistically significant evidence of an increasing trend at the specified level of significance.

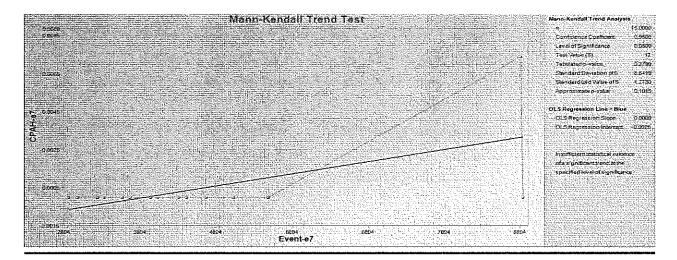


3.0224203 0.0012538

CPAH (sum) - E7

General Statistics	
Number of Events	15
Number of Values	15
Minimum	0
Maximum	0.0074
Mean	4.93E-04
Geometric Mean	0
Median	0
Standard Deviation	0.0019107
SEM	4.93E-04
Mann-Kendall Test	
Test Value (S)	12
Tabulated p-value	0.279
Standard Deviation of S	8.6409876
Standardized Value of S	1.2730026
Approximate p-value	0.1015086

Insufficient evidence to identify a significant trend at the specified level of significance.



1pm Huy 7 mbg 3/19/13 Construction Way (Abserve) Willy relocate - CSIP applito much excavation stats today temp. sheet pile installation dewatering up o unning working well City forcemain 36; City asks who new one online (# Sept.) Soundary bypass.
Lote fall - depending to mid exception or sucharge Safety PRE issues MIES line RAP w/in worth to Agencies Greetient Contral Seystem Meeting SEH, MINDOT, MEES, CSLP, MIRCA, EPA, Verkellus working on much excavation in 50 quadrant gradient control system 86 until? late fall Have ced permit. demotering System now aperating C 500-800 pm, wells along they 7 E, curetty When forcemain comes online, devoting in s. will stop + move to north I provided DNPDES - woston control & construction - have a cc / provided (2.5) W23 revorte to sanitary alerted Witos tyle Colum, Kile Haberty email Soils going to SKB landfell, may change to Denion a notify EPA Ar monitoring baseline + daily Today digging 35-47 A below old they 7. - all mucky & going right to land fill. See dentaining of a much excavation. d feather system your Fow site cutch pand for panling lot if soils needed to be stockpiled (SW Burp) - City vent under particular

- clean fill, surchange - under execution (smeller, visual impacts) - dewaltung sopher I orl/Hab, large file, couldn, small files) & form dochards. Greathy - developed pump of my 27 of the of committee 25 more



Description

Scale 1:8828

Blue = water Green = sanitary sewer Orange = storm sewer

Meeting Agenda & Narrative Schedule (8/19/13)

T.H. 7 and Louisiana Ave Project

S.P. 2706 - 226

1. Utility Relocation Update:

- Arvig Communication:
- Centerpoint Energy:
- Comcast:
- Century Link:
- Xcel Energy:
- City of St Louis Park:
- MCES:

2. Construction Schedule for Week (8/19/13)

Stage 1

- Erosion Control Maintenance
- Grade for Bypass South Side of TH 7
- Muck Excavation
- Build permanent Grade EB 7 from BOP to Column Supported Embankment
- Haul Contaminated to SKB
- Close and Construct 37th Street
- Temporary Sheet pile installation
- H-Pile Installation Column Supported Embankment
- Dewatering
- Temp Bypass Sanitary in Muck Ex

3. Erosion / Sediment Control Schedule

• Weekly Walk Through

4. Safety Meeting Topic this week

- Discuss this week's activity's with project personal
- PPE
- Seat Belts
- CSM safety policies and disciplinary actions

5. Other/Submittals

- MnDOT
- St Louis Park
- Public Relations
- Traffic Control
- Possible Upcoming New Materials?
- Possible Upcoming New Activity's Sanitary Bypass

10-Day Forecast for Minneapolis, MN

			High / Low (°F)	Precip. %
Today Aug 19		Mostly Sunny	89°/68°	20 %
Tue .Aug 20.	2 (25) (27) 2 (25) (26) 2 (27) (27)	Sunny	93°/70°	10 %
Wed Aug 21	संक्षितः १९५५ म्. हेन्य	Scattered T-Storms	90°/63°	30 %
Thu Aug 22	an Sepan ang s	Isolated T-Storms	82°/59°	30 %
Fri Aug 23	- Pro- - Artinana	Scattered T-Storms	82°/65°	40 %
Sat Aug 24	36 4 .*	Mostly Sunny	88°/66°	0 %
Sun Aug 25		Mostly Cloudy	88°/63°	10 %
Mon Aug 26	, 199	Partly Cloudy	86°/63°	20 %
Tue Aug 27	127 127 137 137 137 137 137 137 137 137 137 13	Isolated T-Storms	85°/64°	40 %
Wed Aug 28		Partly Cloudy	81°/62°	10 %

Last Updated Aug 19 07:05 a.m. CT

Three Week Look-Ahead Project Schedule

Project Information:			T.H. 7 and Louisiana					Period Beginning:					08/19/13			Period Ending:				09/08/13				
				19	20	2	1 22	2	3 24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8
Work Type	Job ID		Description	M	T	V	V T	1]	F Sa	Su	M	Υ	W	Th	F	Sa	Su	M	T	W	Th	F	Sa	Su
Erosion Control	1826		Temporary Erosion Control		6000				40	<u> </u>		den e	2.76()							Cay All	100	kalin.		
Traffic	1826		Traffic Control Maintenance	NAME:	Militi	1.000	veugg	9505	i, kani	K Co	. 4. m	Sect.	Q PRO	6 2 E B	100	\$1.00 B	dili.		2,37.6%					
Traffic	1826	_	Day Time Lane Restrictions							1					ļ									
Traffic	1826		Close 37th Street			N. K		1 15			44.65								SH IS		363		1000	
Removals	1826	7	Mill 37th Street			1139					Π													Г
Grading	1826	7	Grade 37th Street																	1120		1111111111	7750	
Grading	1826	1	Bypass South Side of TH 7								H											811		
Grading	1826	1	Muck Excavation	150										200				1	1	1112201102	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		111111111111111111111111111111111111111	
Granular Borrow	1826	1	Backfill Muck Excavation	59703									al al n	10.5	100	W.		1	†					
Grading	1826		Muck Excavation	17591916	231							100	90000	385103		Vijesjo		1	-					
Grading	1826		Haul Contaminated to SKB as Needed	6					in Hall		No. SHE	al est		(45, g), 421	ne ne si	265 H F		T		TOTAL S	139.0		1 950	
Underground	1826	1	MCES Sanitary		1					1				سال 'ر ساندر			1		1216		pedien.	Tive Tree		
Underground	1826	1	Temp Cities Sanatary as Needed for Muck		1510				ř.		an in	50000	Tens	Photo.	MAKE.	1	 							
Structures	1826		Drive H Pile Column Suported Embankment										400			1	-				 		\vdash	
Structures	1826	1	Drive Temp Sheet Piling / Muck Excavation				7	1					100000000	1				1	1					
			Resource	19	20	2	1 22	2	3 24	25	26	27	28	29	30	31	1	2	3	4	5.	6	7	8
Resources	Resources		Activity Description	M	T	N	V TI	I	Sa	Su	M	Υ	W	Th	F	Sa	Su	M	T	W	Th	F	Sa	Su
TranSignal	TranSignal		Traffic Control	8000															10.0	·	- 11	٠		·
Lucas Deconstru	Lucas Deconstruction		Clear and Grub					T	T	I														i
Blake Drillir	Blake Drilling		Dewatering			ψ.	4													4 64				
	Minger Construction		Sanitary Sewer																					
	Central Landscaping		Erosion Control		-200	110							3000											1
Egan Electri	Egan Electric		Temp Signal System	l					1															i